```
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 NEWS  1          Web Page for STN Seminar Schedule - N. America
 NEWS  2  MAY 01  New CAS web site launched
 NEWS  3  MAY 08  CA/CAplus Indian patent publication number format defined
 NEWS  4  MAY 14  RDISCLOSURE on STN Easy enhanced with new search and display
                  fields
 NEWS  5  MAY 21  BIOSIS reloaded and enhanced with archival data
 NEWS  6  MAY 21  TOXCENTER enhanced with BIOSIS reload
 NEWS  7  MAY 21  CA/CAplus enhanced with additional kind codes for German
                  patents
 NEWS  8  MAY 22  CA/CAplus enhanced with IPC reclassification in Japanese
                  patents
 NEWS  9  JUN 27  CA/CAplus enhanced with pre-1967 CAS Registry Numbers
 NEWS 10  JUN 29  STN Viewer now available
 NEWS 11  JUN 29  STN Express, Version 8.2, now available
 NEWS 12  JUL 02  LEMBASE coverage updated
 NEWS 13  JUL 02  LMEDLINE coverage updated
 NEWS 14  JUL 02  SCISEARCH enhanced with complete author names
 NEWS 15  JUL 02  CHEMCATS accession numbers revised
 NEWS 16  JUL 02  CA/CAplus enhanced with utility model patents from China
 NEWS 17  JUL 16  CAplus enhanced with French and German abstracts
 NEWS 18  JUL 18  CA/CAplus patent coverage enhanced
 NEWS 19  JUL 26  USPATFULL/USPAT2 enhanced with IPC reclassification
 NEWS 20  JUL 30  USGENE now available on STN
 NEWS 21  AUG 06  CAS REGISTRY enhanced with new experimental property tags
 NEWS 22  AUG 06  BEILSTEIN updated with new compounds
 NEWS 23  AUG 06  FSTA enhanced with new thesaurus edition
 NEWS 24  AUG 13  CA/CAplus enhanced with additional kind codes for granted
                  patents
 NEWS 25  AUG 20  CA/CAplus enhanced with CAS indexing in pre-1907 records

 NEWS EXPRESS  29 JUNE 2007:  CURRENT WINDOWS VERSION IS V8.2,
               CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN    Welcome Banner and News Items
 NEWS IPC8     For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
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FILE 'HOME' ENTERED AT 10:25:45 ON 22 AUG 2007

=> file registry
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:25:57 ON 22 AUG 2007
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 21 AUG 2007 HIGHEST RN 945293-25-4
DICTIONARY FILE UPDATES: 21 AUG 2007 HIGHEST RN 945293-25-4

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when
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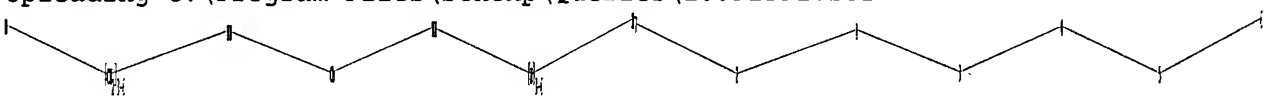
REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10091591.str

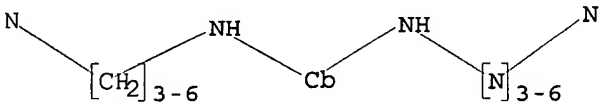


chain nodes :
1 2 3 4 5 6 7
chain bonds :
1-2 1-3 2-7 3-4 4-5 5-6
exact/norm bonds :
4-5 5-6
exact bonds :
1-2 1-3 2-7 3-4

Match level :
1:CLASS 2:CLASS 3:Atom 4:CLASS 5:CLASS 6:CLASS 7:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



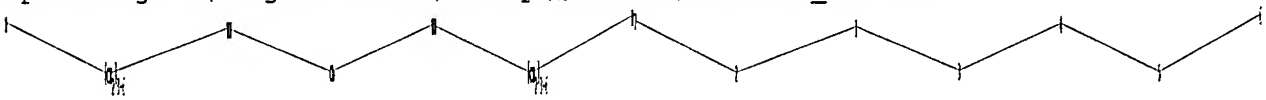
Structure attributes must be viewed using STN Express query preparation.

=> s l1 full
FULL SEARCH INITIATED 10:26:12 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 25 TO ITERATE

100.0% PROCESSED 25 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L2 0 SEA SSS FUL L1

=>
Uploading C:\Program Files\Stnexp\Queries\10091591_new.str

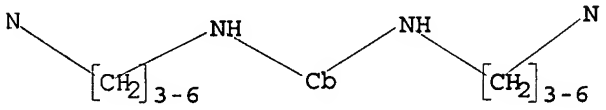


chain nodes :
1 2 3 4 5 6 7
chain bonds :
1-2 1-3 2-7 3-4 4-5 5-6
exact bonds :
1-2 1-3 2-7 3-4 4-5 5-6

Match level :
1:CLASS 2:CLASS 3:Atom 4:CLASS 5:CLASS 6:CLASS 7:CLASS

L3 STRUCTURE UPLOADED

=> d l3
L3 HAS NO ANSWERS
L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l3 full
FULL SEARCH INITIATED 10:27:34 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1805821 TO ITERATE

41.9% PROCESSED 756162 ITERATIONS 159 ANSWERS

53.4% PROCESSED 963657 ITERATIONS 177 ANSWERS

54.9% PROCESSED 990673 ITERATIONS 177 ANSWERS

55.4% PROCESSED 1000000 ITERATIONS 177 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.51

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**

```
                        BATCH   **INCOMPLETE**
PROJECTED ITERATIONS:      1805821 TO  1805821
PROJECTED ANSWERS:             266 TO      372

L4          177 SEA SSS FUL L3

=> file medline caplus wpids uspatfull
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   345.55     345.76

FILE 'MEDLINE' ENTERED AT 10:28:46 ON 22 AUG 2007

FILE 'CAPLUS' ENTERED AT 10:28:46 ON 22 AUG 2007
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FILE 'WPIDS' ENTERED AT 10:28:46 ON 22 AUG 2007
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FILE 'USPATFULL' ENTERED AT 10:28:46 ON 22 AUG 2007
CA INDEXING COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

=> s l4
SAMPLE SEARCH INITIATED 10:28:51 FILE 'WPIDS'
SAMPLE SCREEN SEARCH COMPLETED -    10187 TO ITERATE

  9.8% PROCESSED     1000 ITERATIONS                                 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.06

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       98997 TO   104743
PROJECTED ANSWERS:              0 TO        0

L5          52 L4

=> s l5 not py>2003
L6          14 L5 NOT PY>2003

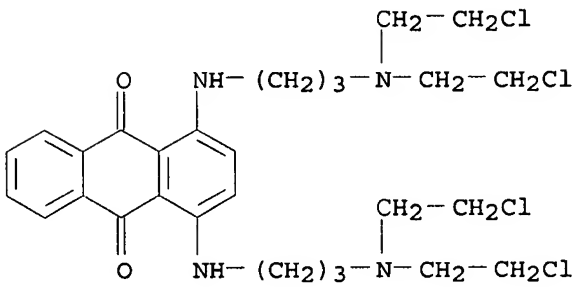
=> d l6 1-14 ibib, abs, hitstr

L6   ANSWER 1 OF 14  CAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:        2003:655735  CAPLUS
DOCUMENT NUMBER:         140:122227
TITLE:                   Alchemix: A novel alkylating anthraquinone with potent
                         activity against anthracycline- and
                         cisplatin-resistant ovarian cancer
AUTHOR(S):               Pors, Klaus; Paniwnyk, Zennia; Teesdale-Spittle, Paul;
                         Plumb, Jane A.; Willmore, Elaine; Austin, Caroline A.;
                         Patterson, Laurence H.
CORPORATE SOURCE:        Department of Pharmaceutical and Biological Chemistry,
                         The School of Pharmacy, University of London, London,
                         WC1N 1AX, UK
SOURCE:                  Molecular Cancer Therapeutics (2003), 2(7), 607-610
                         CODEN: MCTOCF; ISSN: 1535-7163
PUBLISHER:               American Association for Cancer Research
DOCUMENT TYPE:           Journal
LANGUAGE:                English
AB   Chloroethylaminoanthraquinones are described with intercalating and
     alkylating capacity that potentially covalently cross-link topoisomerase
     II (topo II) to DNA.  These compds. have potent cytotoxic activity (IC50 =
     0.9-7.6 nM) against the A2780 human ovarian carcinoma cell line.
```

Hydroxyethylaminoanthraquinones also reported in this paper have similar IC50 values (0.7-1.7 nM) in the same cell line. Alchemix (ZP281M, 1-{2-[N,N-bis(2-chloroethyl)amino]ethylamino}-4-{2- [N,N-(dimethyl)amino]ethylamino}-5,8-dihydroxy-9,10-anthracenedione), an alkylating anthraquinone, retains excellent antitumor activity in Adriamycin-resistant (2780AD) and cisplatin-resistant (2780/cp70) cell lines in vitro and in vivo. This indicates that Alchemix can evade both P-glycoprotein efflux pump and DNA mismatch repair-mediated resistance. In treated cells, Alchemix was shown to preferentially induce drug-stabilized covalent bound topo IIα-DNA complexes over topo IIβ-DNA complexes.

IT 648903-53-1, ZP 289M
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antitumor and topoisomerase activity of alkylating anthraquinones with potent activity against anthracycline- and cisplatin-resistant ovarian cancer)

RN 648903-53-1 CAPLUS
CN 9,10-Anthracenedione, 1,4-bis[[3-[bis(2-chloroethyl)amino]propyl]amino]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:616793 CAPLUS
DOCUMENT NUMBER: 139:358088
TITLE: Antiplasmodial activity of a series of 1,3,5-triazine-substituted polyamines
AUTHOR(S): Klenke, Burkhard; Barrett, Michael P.; Brun, Reto; Gilbert, Ian H.
CORPORATE SOURCE: Welsh School of Pharmacy, Redwood Building, Cardiff University, Cardiff, CF10 3XF, UK
SOURCE: Journal of Antimicrobial Chemotherapy (2003), 52(2), 290-293
CODEN: JACHDX; ISSN: 0305-7453
PUBLISHER: Oxford University Press
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

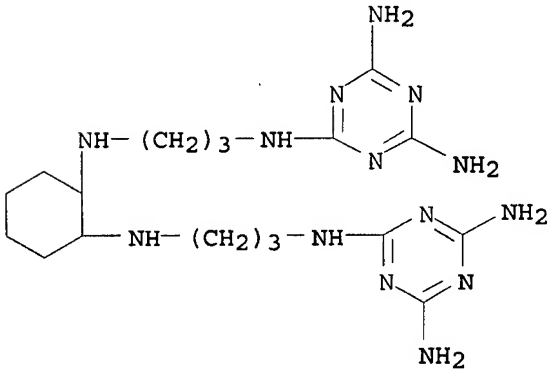
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Polyamine biosynthesis and function has been shown to be a good drug target in some parasitic protozoa and it is proposed that the pathway might also represent a target in the malaria parasite Plasmodium falciparum. A series of 1,3,5-triazine-substituted polyamine analogs, e.g. I, II, III, and IV, were tested for activity against Plasmodium falciparum in vitro. The series showed activity against the parasites and

were generally more active against the chloroquine-resistant line K1 than the chloroquine-susceptible line NF54. Simple unbranched analogs had better activity than analogs carrying branched or cyclic central chains. Addition of multiple triazine units in general led to increased activity of the compds.

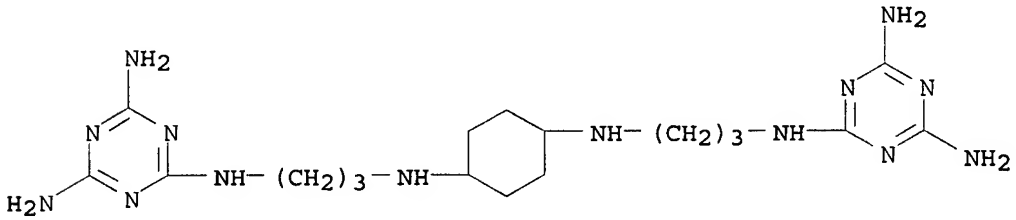
IT 374673-91-3 374673-92-4
RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antiplasmodial activity of a series of triazine-substituted polyamines)

RN 374673-91-3 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-[1,2-cyclohexanediylbis(imino-3,1-propanediyl)]bis-, tetrahydrochloride (9CI) (CA INDEX NAME)



●4 HCl

RN 374673-92-4 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-[1,4-cyclohexanediylbis(imino-3,1-propanediyl)]bis-, tetrahydrochloride (9CI) (CA INDEX NAME)



●4 HCl

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:345377 CAPLUS
DOCUMENT NUMBER: 139:82313
TITLE: Preparation and biological assessment of hydroxycinnamic acid amides of polyamines
AUTHOR(S): Fixon-Owoo, Solomon; Levasseur, Frederic; Williams, Keith; Sabado, Thomas N.; Lowe, Mike; Klose, Markus; Joffre Mercier, A.; Fields, Paul; Atkinson, Jeffrey
CORPORATE SOURCE: Department of Chemistry, Brock University,

St.Catharines, ON, L2S3A1, Can.
SOURCE: Phytochemistry (Elsevier) (2003), 63(3), 315-334
CODEN: PYTCAS; ISSN: 0031-9422
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:82313

AB Many plants contain hydroxycinnamic acid conjugates of polyamines that are similar in structure to the acylated polyamines found in spider and wasp toxins. In an effort to determine whether these compds. might play a role in the chemical defense of plants against arthropod pests we synthesized a variety of analogs of the coumaric (4-hydroxycinnamic) acid conjugates of di-, tri-, and tetraamines using common protection and acylation strategies. N1- and N8-coumaroyl spermidine were tested in feeding trials with insect larvae including the European corn borer (Ostrinia nubilalis), the tobacco budworm (Heliothis virescens) and the oblique banded leaf roller (Choristoneura rosaceana). Antifeedant assays with the rice weevil Sitophilus oryzae were also performed. Neither the naturally occurring coumaric acid conjugates of polyamines nor their analogs showed notable toxicity towards insects, despite precautions to maintain these easily oxidized materials in the wet diet. However, more direct bioassays of these compds. on glutamate-dependent neuroreceptors including the deep abdominal extensor muscles of crayfish, or mammalian NMDA, δ2, and AMPA receptors, showed that these compds. were inhibitory. N1-Coumaoryl spermine, a dodecyl and a cyclohexyl analog were especially active at NMDA NR1/NR2B receptors. The latter had an IC50 of 300 μM in the crayfish. N1-Coumaroyl spermine had an IC50 in the crayfish preparation of 70-300 μM and against the mammalian NR1/NR2B receptor of 38 nM. Structure-activity variations show similar trends of length and hydrophobicity as has been seen previously with analogs of spider toxins. While the coumaric acid polyamine conjugates are active when directly applied to neuroreceptors, they show no overt toxicity when ingested by insect larvae.

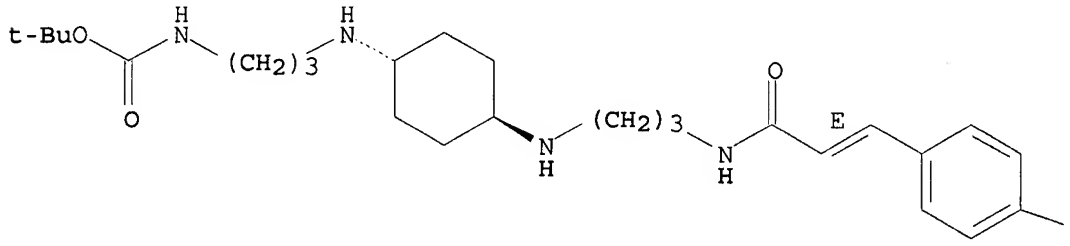
IT 556824-25-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(inhibitory activity on crayfish and mammalian glutamate-dependent neuroreceptors)

RN 556824-25-0 CAPLUS

CN Carbamic acid, [3-[[trans-4-[[3-[[(2E)-3-[4-(acetyloxy)phenyl]-1-oxo-2-propenyl]amino]propyl]amino]cyclohexyl]amino]propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

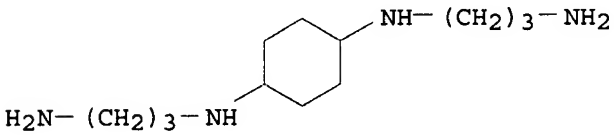
Relative stereochemistry.
Double bond geometry as shown.

PAGE 1-A

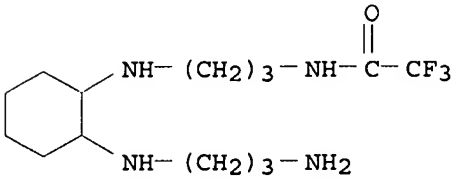


IT 484670-29-3P 556065-79-3P 556065-82-8P
556065-84-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate in preparation of hydroxycinnamic acid amides of polyamines with inhibitory activity on crayfish and mammalian glutamate-dependent neuroreceptors)

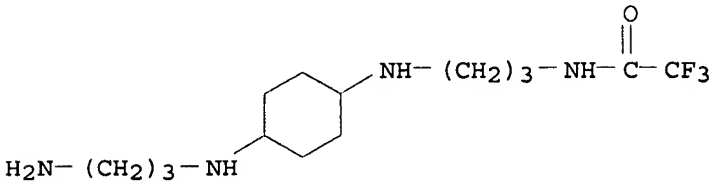
RN 484670-29-3 CAPLUS
CN 1,4-Cyclohexanediamine, N,N'-bis(3-aminopropyl)- (9CI) (CA INDEX NAME)



RN 556065-79-3 CAPLUS
CN Acetamide, N-[3-[[2-[(3-aminopropyl)amino]cyclohexyl]amino]propyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)

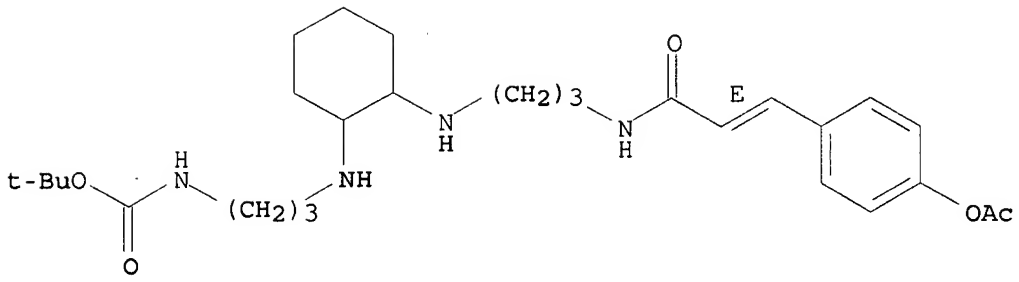


RN 556065-82-8 CAPLUS
CN Acetamide, N-[3-[[4-[(3-aminopropyl)amino]cyclohexyl]amino]propyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



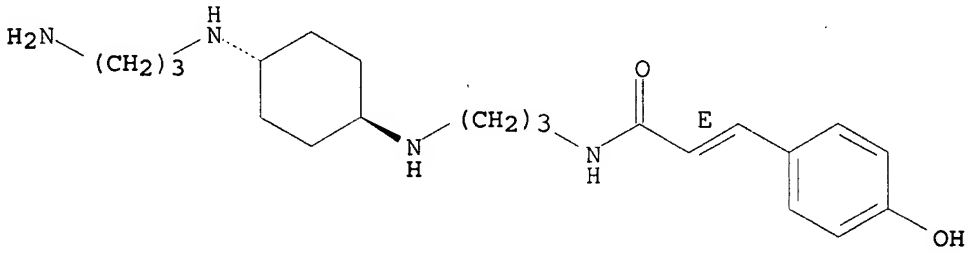
RN 556065-84-0 CAPLUS
CN Carbamic acid, [3-[[2-[[3-[[(2E)-3-[4-(acetyloxy)phenyl]-1-oxo-2-propenyl]amino]propyl]amino]cyclohexyl]amino]propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 556824-24-9P
RL: BCP (Biochemical process); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process)
(preparation and inhibitory activity on crayfish and mammalian glutamate-dependent neuroreceptors)
RN 556824-24-9 CAPLUS
CN 2-Propenamide, N-[3-[[trans-4-[(3-aminopropyl)amino]cyclohexyl]amino]propyl]-3-(4-hydroxyphenyl)-, trihydrochloride, (2E)- (9CI) (CA INDEX NAME)

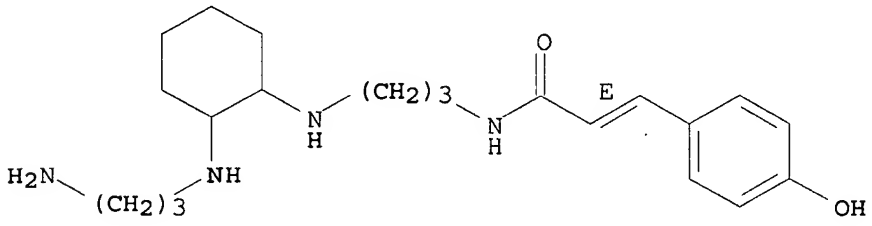
Relative stereochemistry.
Double bond geometry as shown.



●3 HCl

IT 556065-78-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation and inhibitory activity on crayfish and mammalian glutamate-dependent neuroreceptors)
RN 556065-78-2 CAPLUS
CN 2-Propenamide, N-[3-[[2-[(3-aminopropyl)amino]cyclohexyl]amino]propyl]-3-(4-hydroxyphenyl)-, (2E)- (9CI) (CA INDEX NAME)

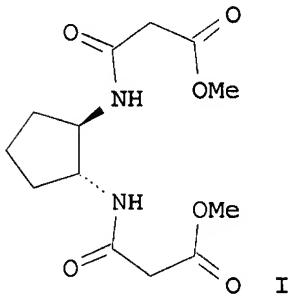
Double bond geometry as shown.



REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:772409 CAPLUS

DOCUMENT NUMBER: 138:24484
TITLE: Biocatalytic Approaches toward the Synthesis of Both Enantiomers of trans-Cyclopentane-1,2-diamine
AUTHOR(S): Luna, Amparo; Alfonso, Ignacio; Gotor, Vicente
CORPORATE SOURCE: Departamento de Quimica Organica e Inorganica Facultad de Quimica, Universidad de Oviedo, Oviedo, 33071, Spain
SOURCE: Organic Letters (2002), 4(21), 3627-3629
CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:24484
GI



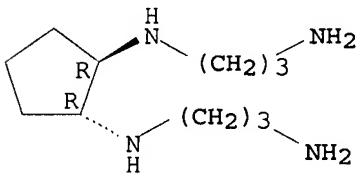
I

AB A lipase-catalyzed double monoaminolysis of di-Me malonate by (±)-trans-cyclopentane-1,2-diamine allowed the sequential resolution of the latter compound, affording an enantiopure bis(amidoester) I, which was subsequently transformed into an optically active polyamine. As an alternative, both enantiomers of the diamine were obtained from enantiopure (+)- or (-)-2-aminocyclopentanol, prepared by enzymic resolution

IT 477873-37-3P
RL: BPN (Biosynthetic preparation); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of both enantiomers of trans-cyclopentanediamine via lipase-catalyzed acylation with malonates or from enantiopure aminocyclopentanol)

RN 477873-37-3 CAPLUS
CN 1,2-Cyclopentanediamine, N,N'-bis(3-aminopropyl)-, (1R,2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:591702 CAPLUS
DOCUMENT NUMBER: 137:156426
TITLE: Cyanoethylation process and acid catalysts for the manufacture of polynitriles from cycloaliphatic vicinal primary diamines

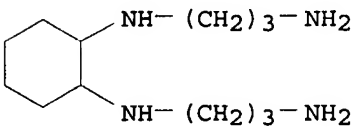
INVENTOR(S): Burdeniuc, Juan Jesus
PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., USA
SOURCE: Eur. Pat. Appl., 13 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1229021	A1	20020807	EP 2002-1181	20020129
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 6433212	B1	20020813	US 2001-774343	20010131
BR 2002000266	A	20021015	BR 2002-266	20020125
JP 2002226450	A	20020814	JP 2002-21288	20020130
US 2002156315	A1	20021024	US 2002-123929	20020417
US 6472553	B2	20021029		

PRIORITY APPLN. INFO.: US 2001-774343 A 20010131
OTHER SOURCE(S): MARPAT 137:156426

AB Polynitriles are prepared from cycloaliph. vicinal primary diamines by reacting them with acrylonitrile in the presence of water and a catalytic amount of an acid catalyst having a pKa of -3.0 to +7.5 (e.g., acetic acid).

IT 445270-40-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of)
RN 445270-40-6 CAPLUS
CN 1,2-Cyclohexanediamine, N,N'-bis(3-aminopropyl)-C-methyl- (9CI) (CA INDEX NAME)



D1— Me

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

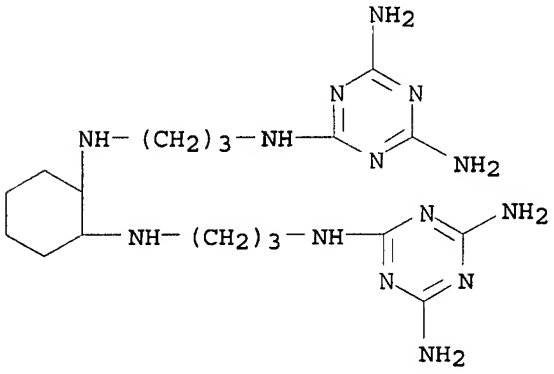
L6 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:680366 CAPLUS
DOCUMENT NUMBER: 135:366327
TITLE: Synthesis and Biological Evaluation of s-Triazine Substituted Polyamines as Potential New Anti-Trypanosomal Drugs
AUTHOR(S): Klenke, Burkhard; Stewart, Mhairi; Barrett, Michael P.; Brun, Reto; Gilbert, Ian H.
CORPORATE SOURCE: Welsh School of Pharmacy, Cardiff University, Cardiff, CF10 3XF, UK
SOURCE: Journal of Medicinal Chemistry (2001), 44(21), 3440-3452
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:366327

AB The P2 transporter is a nucleoside transporter which is unique to the protozoan parasite Trypanosoma brucei, the causative organism of Human

African Trypanosomiasis. The transporter has been shown to bind some structural motifs not recognized by other transporters. In this paper we describe the use of the melamine motif, a substrate of the P2 transporter, as a potential tool to selectively deliver polyamine analogs to the parasites. The synthesis of a number of polyamine analogs attached to a variety of melamine analogs is described. Many of the compds. were shown to competitively inhibit uptake of adenosine, indicating that they are recognized by the transporter. Some of the compds. showed good in vitro activity against the parasites.

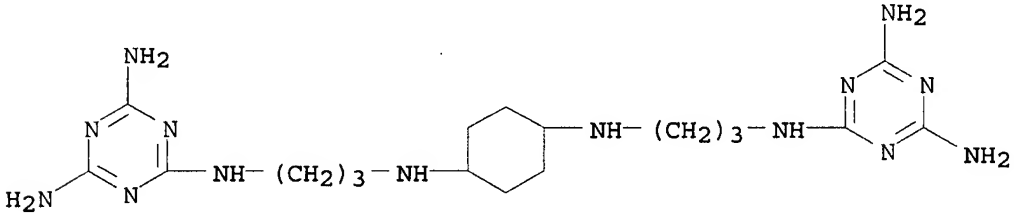
IT 374673-91-3P 374673-92-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and structure activity relationships of s-triazine substituted polyamines as antitrypanosomal drugs)

RN 374673-91-3 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-[1,2-cyclohexanediylbis(imino-3,1-propanediyl)]bis-, tetrahydrochloride (9CI) (CA INDEX NAME)



●4 HCl

RN 374673-92-4 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-[1,4-cyclohexanediylbis(imino-3,1-propanediyl)]bis-, tetrahydrochloride (9CI) (CA INDEX NAME)



●4 HCl

REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:338479 CAPLUS
DOCUMENT NUMBER: 134:353175
TITLE: Preparation of amides and ureas as activators of

soluble guanylate cyclase

INVENTOR(S): Selwood, David; Glen, Robert; Reynolds, Karen; Wishart, Grant

PATENT ASSIGNEE(S): University College London, UK

SOURCE: PCT Int. Appl., 101 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

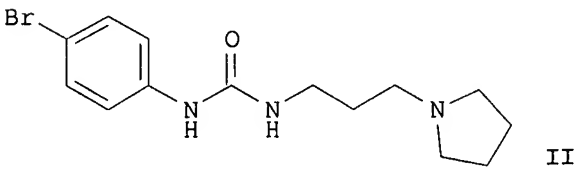
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001032604	A1	20010510	WO 2000-GB4249	20001106
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2389773	A1	20010510	CA 2000-2389773	20001106
EP 1237849	A1	20020911	EP 2000-973061	20001106
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003513064	T	20030408	JP 2001-534758	20001106

PRIORITY APPLN. INFO.:

GB 1999-26286	A	19991105
US 2000-201382P	P	20000502
WO 2000-GB4249	W	20001106

OTHER SOURCE(S): MARPAT 134:353175

GI



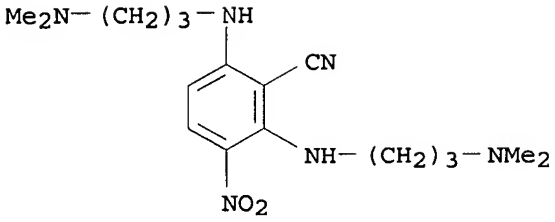
II

AB The title compds. R4PZNR1R2 [I; R1, R2 = alkyl; R1R2 together form alkylene; Z = alkylene; P = a direct bond, X, Y, W, XY, YW, XYW (wherein W = O, S, NR3; R3 = H, alkyl; Y = UV; V = a direct bond, alkylene; U = CS, CO, SO2, C(:NR); R = H, OH, alkyl; X = O, NR6; R6 = H, alkyl, alkenyl, etc.); R4 = alkyl, alkenyl, alkynyl, etc.], useful in the activation of soluble guanylate cyclase, were prepared E.g., synthesis of the urea II, starting with 4-bromoaniline and 1-(3-aminopropyl)pyrrolidine, was given. Biol. data for compds. I (e.g., IC50 for inhibition of platelet aggregation) were presented.

IT 338981-24-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of amides and ureas as activators of soluble guanylate cyclase)

RN 338981-24-1 CAPLUS

CN Benzonitrile, 2,6-bis[[3-(dimethylamino)propyl]amino]-3-nitro- (9CI) (CA INDEX NAME)



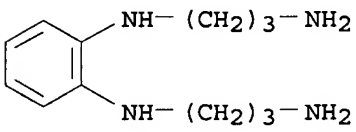
REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:156286 CAPLUS
DOCUMENT NUMBER: 134:326005
TITLE: Nitrile reduction in the presence of Boc-protected amino groups by catalytic hydrogenation over palladium-activated Raney-nickel
AUTHOR(S): Klenke, Burkhard; Gilbert, Ian H.
CORPORATE SOURCE: Welsh School of Pharmacy, Cardiff University, Cardiff, CF10 3XF, UK
SOURCE: Journal of Organic Chemistry (2001), 66(7), 2480-2483
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 134:326005

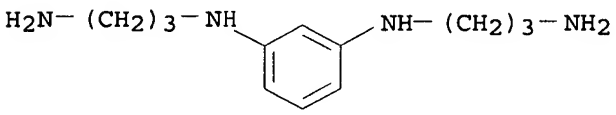
AB Nitriles NCCH2CH2NX-R-NXCH2CH2CN [R = (CH2)n, 1,2-cyclohexyl, 1,4-cyclohexyl, CHMeCH2, X = Boc, n = 4, 7, 9, 12; R = 1,2-Ph, 1,3-Ph, 1,4-Ph, X = H] are reduced to primary amines in the presence of N-tert-butoxycarbonyl (Boc) groups. E.g., NCCH2CH2N(Boc)(CH2)4N(Boc)CH2CH 2CN in absolute ethanol and THF was stirred with a mixture of Pd/C and Raney nickel and sodium hydroxide; the mixture was shaken for 8 h under 45 psi of hydrogen and worked up to give H2N(CH2)3N(Boc)(CH2)4N(Boc)(CH2)3NH2 in 84% yield. The reduction can be carried out under atmospheric H2 pressure using com. avail. catalysts. Both Boc groups and aromatic moieties present in the starting material are well tolerated under the mild optimized conditions.

IT 336881-15-3P 336881-16-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of diamines by chemoselective reduction of nitriles in the presence of Boc-amino and arylamino groups with palladium on carbon and Raney nickel as catalysts)

RN 336881-15-3 CAPLUS
CN 1,2-Benzenediamine, N,N'-bis(3-aminopropyl)- (9CI) (CA INDEX NAME)



RN 336881-16-4 CAPLUS
CN 1,3-Benzenediamine, N,N'-bis(3-aminopropyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

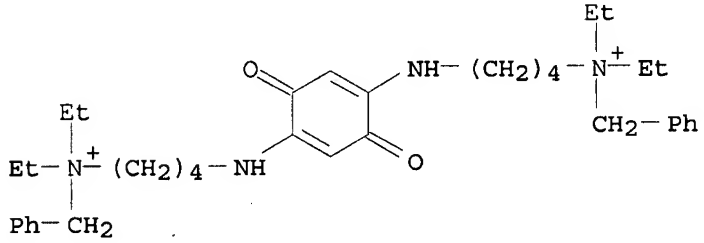
L6 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1955:43079 CAPLUS
DOCUMENT NUMBER: 49:43079
ORIGINAL REFERENCE NO.: 49:8332c-d
TITLE: Carboxy esters of di- and trimethylolbenzenes
INVENTOR(S): Ishii, Yoshiro; Yamashita, Yuya
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 28005675	B4	19531102	JP	

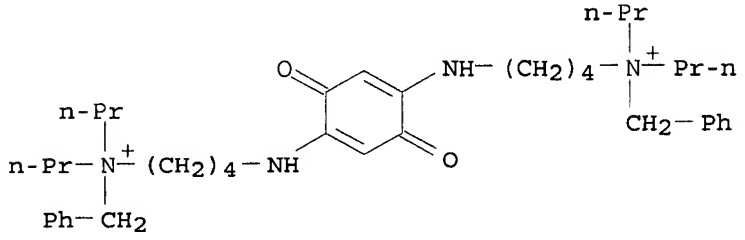
AB m-C6H4Me2 1 and CCl4 4 at 70° treated by passing in Cl gas while exposing it to sunlight until the increase in weight 0.3-0.6 is reached and the product distilled to obtain m-C6H4(CH2Cl)2 (I) 0.8-1.3 part, b13 140°; I 1 and PrCO2Na 1.1 in BuOH heated 3-6 h. and the product distilled gave 1,3-C6H4(CH2OCOPr)2 1.2 parts, b5 170-85°. Similarly are prepared 1,3,6-MeC6H3(CH2OCOCH2CH2Ac)2, b5 170-230°; 1,3,4-C6H3(CH2OAc)3, b5 170-88°.

IT 807299-34-9P, Ammonium, [2,5-p-benzoquinonylenebis(iminotetramethylene)]bis[benzyldiethyl-chloride] 874520-58-8P, Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[benzyldipropyl-chloride] 875240-83-8P, Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[methyldipropyl-bromide]
RL: PREP (Preparation)
(preparation of)

RN 807299-34-9 CAPLUS
CN [p-Benzoquinon-2,5-ylenebis(iminotetramethylene)]bis[benzyldiethylammonium] (6CI) (CA INDEX NAME)

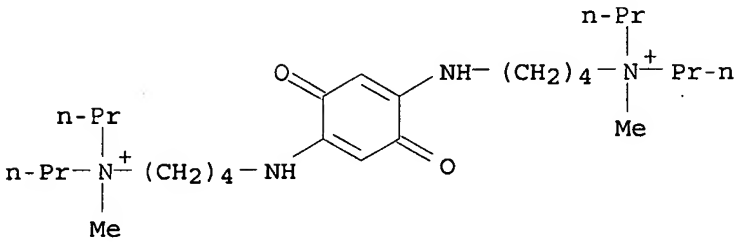


RN 874520-58-8 CAPLUS
CN Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[benzyldipropyl-chloride] (5CI) (CA INDEX NAME)



RN 875240-83-8 CAPLUS

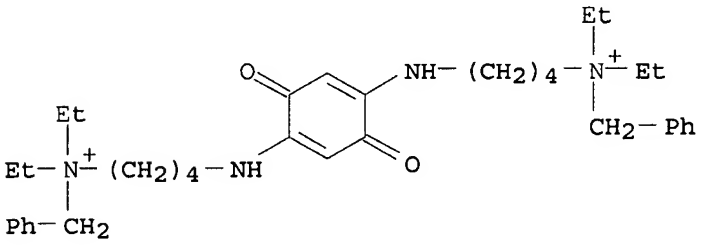
CN Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[methyldipropyl-bromide] (5CI) (CA INDEX NAME)



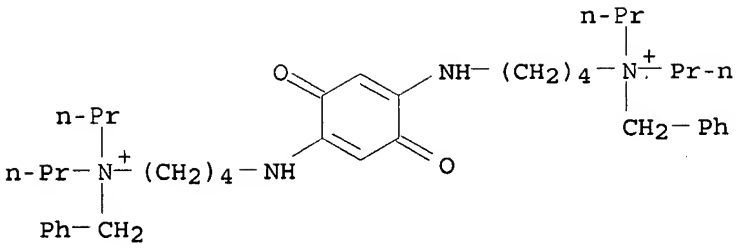
L6 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1955:43078 CAPLUS
DOCUMENT NUMBER: 49:43078
ORIGINAL REFERENCE NO.: 49:8332c
TITLE: Alkylamino-p-benzoquinones
INVENTOR(S): Cavallito, Chester J.
PATENT ASSIGNEE(S): Sterling Drug Inc.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2701247		19550201	US	

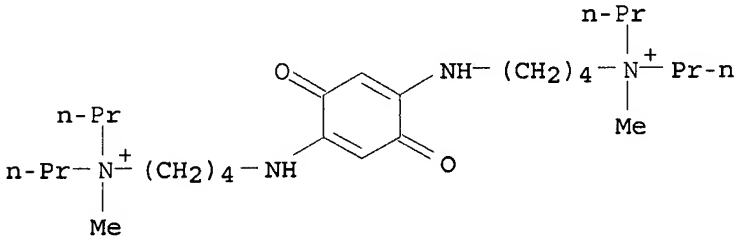
AB See Brit. 694,738 (C.A. 49, 4716a).
IT 807299-34-9P, Ammonium, [2,5-p-benzoquinonylenebis(iminotetramethylene)]bis[benzyldiethyl-chloride] 874520-58-8P, Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[benzyldipropyl-chloride] 875240-83-8P, Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[methyldipropyl-bromide] 875843-84-8P, p-Benzoquinone, 2,5-bis[3-(ethylmethylamino)-propylamino]-
RL: PREP (Preparation)
(preparation of)
RN 807299-34-9 CAPLUS
CN [p-Benzoquinon-2,5-ylenebis(iminotetramethylene)]bis[benzyldiethylammonium] (6CI) (CA INDEX NAME)



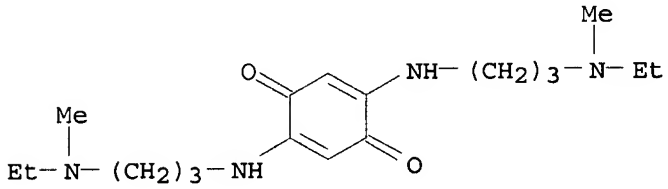
RN 874520-58-8 CAPLUS
CN Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[benzyldipropyl-chloride] (5CI) (CA INDEX NAME)



RN 875240-83-8 CAPLUS
CN Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[methyldipropyl-bromide] (5CI) (CA INDEX NAME)



RN 875843-84-8 CAPLUS
CN p-Benzoquinone, 2,5-bis[3-(ethylmethylamino)-propylamino]- (5CI) (CA INDEX NAME)



L6 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1955:24130 CAPLUS
DOCUMENT NUMBER: 49:24130
ORIGINAL REFERENCE NO.: 49:4716a-g
TITLE: Alkylamino-p-benzoquinones
INVENTOR(S): Cavallito, Chester J.
PATENT ASSIGNEE(S): Sterling Drug Inc.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 694738		19530729	GB 1950-24128	19501003

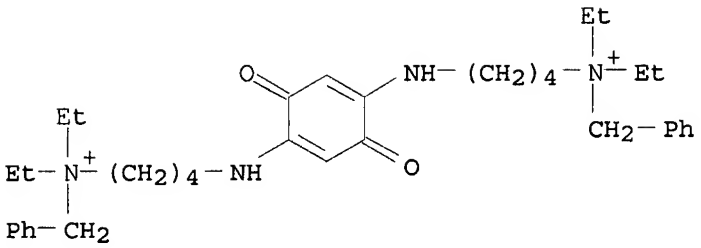
AB Alkylamines with p-benzoquinones give alkylamino-p-quinones, which, when quaternized, are highly effective curarimetic agents. Thus, O was bubbled through a solution of 104 g. N,N-diethyl-1,3-diaminopropane (I) and 44 g. p-benzoquinone (II) in 500 mL. dioxane (III) for 20 h. Cooling in ice produced 35 g. 2,5-bis(3'-diethylaminopropylamino)-p-benzoquinone (IV), red crystals from EtOH, m. 122-4°; IV.2HCl, red powder, m. 250-1°. Refluxing 35 g. IV with 60 g. PhCH2Cl (V) in 500 mL. 95%

EtOH for 4 h., followed by cooling and addition of an equal volume of Et2O, produced a red oil which crystallized on standing and was collected, repptd. from EtOH with Et2O twice more, and dried at 80° yielding 51 g. IV.2PhCH2Cl, H2O-soluble orange-red solid, m. 191-5°. IV (5 g.) and 2 molar equivalents of MeBr in 100 mL. EtOH allowed to stand 2 h. at 25° formed a precipitate which, washed with III and dried at 80°, yielded 7.7 g. IV.2MeBr (VI), orange powder, m. 225°. Other compds. prepared in a similar manner were 2-(2'-diethylaminoethylamino)-p-benzoquinone (VII), orange crystals, m. 119° [VII.MeBr (VIII), m. 225° (decomposition)]; 2,5-bis(2'-diethylaminoethylamino)-p-benzoquinone (IX), m. 134-5° (from aqueous EtOH), [IX.2PhCH2Cl (X), H2O-soluble solid, m. 165-80°]; 2,5-bis [2'(4''-morpholinyl)ethylamino]-p-benzoquinone (XI), orange crystals, m. 189-90° [XI.2MeBr (XII), m. 231-4° (decomposition)]; 2-(3'-dimethyl-aminopropylamino)-p-benzoquinone (XIII), m. 159-60°; 2- [3'-(1''-piperidyl)propylamino]-p- benzoquinone (XIV), red crystals, m. 200-1° (decomposition) [XIV.HCl (XV), light brown powder, m. 251-5°; XIV.MeBr (XVI), m. 255°]; 2-[N-3'-(1''-piperidyl)-propyl-N-methylamino]-p -benzoquinone (XVII), red platelets, m. 160-1° [XVII.HCl (XVIII), pink solid, m. 253-5° (decomposition)]; 2,5-bis(3'-dimethylaminopropylamino)-p-benzoquinone (XIX), red crystals, m. 125-6° [XIX.2PhCH2Cl.2H2O, m. 205-25°]; 2,5-bis(3'-di-n-propylaminopropylamino)-p-benzoquinone (XX), red crystals, m. 65-6° [XX.2PhCH2Cl (XXI), m.p. indefinite; XX.2MeBr (XXII), m. 202-4°]; 2,5-bis[3'-(1''-piperidyl)-propylamino]-p-benzoquinone (XXIII), orange-red crystals, m. 179-81° [XXIII.2MeBr (XXIV), m. 253° (decomposition); XXIII.2PhCH2Cl (XXV), m. 175-200°]; 2,5-bis[N-3'-(1''-piperidyl)propyl-N-methylamino]-p-benzoquinone (XXVI), m. 117-18° [XXVI.2MeBr (XXVII), m. 245-50°]; 2,5-bis[3'-(4''-morpholinyl)-propylamino]-p-benzoquinone (XXVIII), m. 200° [XXVIII.2MeBr (XXIX), m. 248° (decomposition)]; 2-(4'-diethylaminobutylamino)-p-benzoquinone (XXX), m. 123-5° [XXX.MeBr (XXXI), m. 146-8°]; 2-(4'-diethylaminobutylamino)-5-methylamino-p-benzoquinone (XXXII), yellow solid, m. 103-6°; 2,5-bis(4'-diethylaminobutylamino)-p-benzoquinone (XXXIII), m. 105-6° [XXXIII.2MeBr (XXXIV), m. 229-30°; XXXIII.2PhCH2Cl (XXXV), red amorphous compound, m.p. indefinite]; 2,5-bis(5'-diethylaminoamylamino)-p-benzoquinone (XXXVI), m. 92-5° [XXXVI.2MeBr (XXXVII), m. 112-13°]; 2,5-bis[5'-(1''-piperidyl)amylamino]-p-benzoquinone (XXXVIII) [XXXVIII.2MeBr (XXXIX), m. 264-70°]; 2-(5'-diethylaminoamylamino)-p-benzoquinone (XL), m. 84-6° [XL.MeBr (XLI), m. about 113°]; 2-[5'-(1''-piperidyl)amylamino]-p-benzoquinone (XLII), m. 176-7° 2,5-bis(3'-diethylaminopropylamino)-3,6-dichloro-p-benzoquinone (XLIII), bronze needles, m. 136-7°; [XLIII.2PhCH2Cl, dark brown powder, m.p. indefinite].

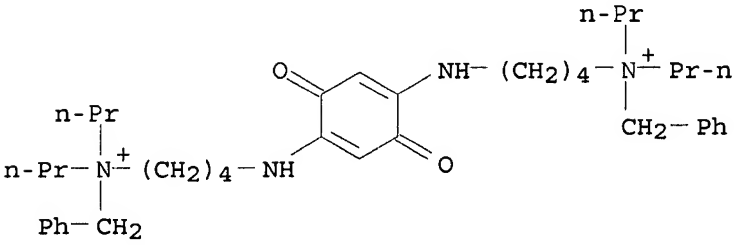
IT 807299-34-9P, Ammonium, [2,5-p-benzoquinonylenebis(iminotetramethylene)]bis[benzyldiethyl-chloride] 874520-58-8P, Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[benzyldipropyl-chloride] 875240-83-8P, Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[methyldipropyl-bromide] 875843-84-8P, p-Benzoquinone, 2,5-bis[3-(ethylmethylamino)-propylamino]-
RL: PREP (Preparation)
(preparation of)

RN 807299-34-9 CAPLUS

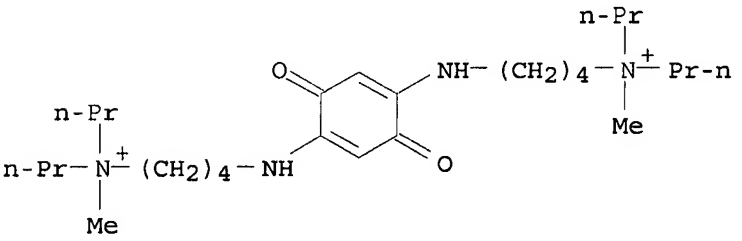
CN [p-Benzoquinon-2,5-ylenebis(iminotetramethylene)]bis[benzyldiethylammonium] (6CI) (CA INDEX NAME)



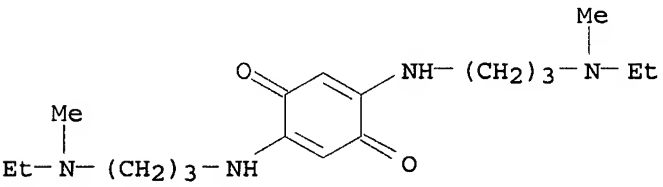
RN 874520-58-8 CAPLUS
CN Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[benzyldipropyl-chloride] (5CI) (CA INDEX NAME)



RN 875240-83-8 CAPLUS
CN Ammonium, [2,5-p-benzoquinonylenebis(iminotrimethylene)]bis[methyldipropyl-bromide] (5CI) (CA INDEX NAME)



RN 875843-84-8 CAPLUS
CN p-Benzoquinone, 2,5-bis[3-(ethylmethylamino)-propylamino]- (5CI) (CA INDEX NAME)

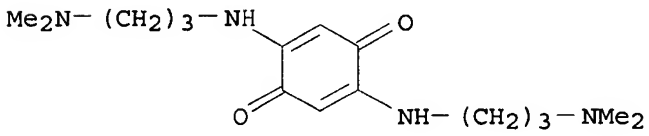


L6 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1952:62499 CAPLUS
DOCUMENT NUMBER: 46:62499
ORIGINAL REFERENCE NO.: 46:10463c-e
TITLE: Mytolon and related compounds as antagonists of acetylcholine on the heart of Venus mercenaria

AUTHOR(S): Luduena, F. P.; Brown, Theodore G., Jr.
CORPORATE SOURCE: Sterling-Winthrop Research Inst., Rensselaer, NY
SOURCE: Journal of Pharmacology and Experimental Therapeutics (1952), 105, 232-9
CODEN: JPETAB; ISSN: 0022-3565
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB The acetylcholine (I) blocking effect of various ganglionic and neuromuscular blocking agents was determined on the isolated heart of the clam, Venus mercenaria. d-Tubocurarine, decamethonium, and dihydro-β-erythroidine showed no I blocking activity at concns. as high as 10-4, and sparteine had little effect at this same concentration Et4NBr and various benzoquinone derivs. reduced, and at higher concns. blocked, the inhibitory effect of I. The most potent compound tested, 2,5-bis(diethylaminopropylamino)benzoquinone benzochloride (mytolon, WIN 2747), was about 1000 times as active as Et4NBr, and a number of its closely related 2,5-disubstituted homologs also showed high activity. No correlation was found between I blocking activity on the Venus heart and ganglionic, curarimimetic, or anticholinesterase activities.
IT 854050-41-2, p-Benzoquinone, 2,5-bis(3-dimethylaminopropylamino)-, compound with benzyl chloride 854050-43-4, p-Benzoquinone, 2,5-bis(3-diethylaminopropylamino)-, methobromide 854050-44-5, p-Benzoquinone, 2,5-bis(5-diethylaminopentylamino)-, methobromide 854050-46-7, p-Benzoquinone, 2,5-bis(4-diethylaminobutylamino)-, methobromide 854051-49-3, p-Benzoquinone, 2,5-dichloro-3,6-bis(3-diethylaminopropylamino)-, compound with benzyl chloride
(as antagonist of acetylcholine on heart)
RN 854050-41-2 CAPLUS
CN p-Benzoquinone, 2,5-bis(3-dimethylaminopropylamino)-, compd. with benzyl chloride (5CI) (CA INDEX NAME)

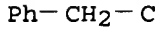
CM 1

CRN 107525-13-3
CMF C16 H28 N4 O2

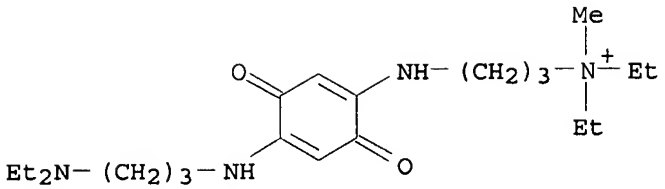


CM 2

CRN 100-44-7
CMF C7 H7 Cl

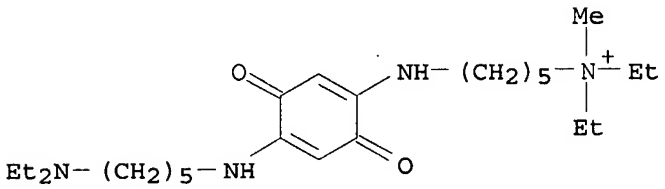


RN 854050-43-4 CAPLUS
CN p-Benzoquinone, 2,5-bis(3-diethylaminopropylamino)-, methobromide (5CI) (CA INDEX NAME)



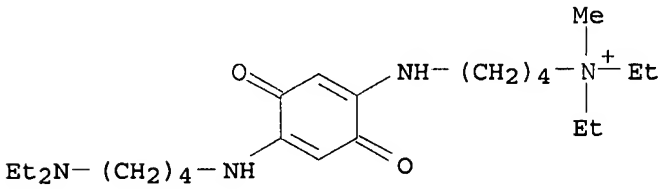
● Br^-

RN 854050-44-5 CAPLUS
CN p-Benzoquinone, 2,5-bis(5-diethylaminopentylamino)-, methobromide (5CI) (CA INDEX NAME)



● Br^-

RN 854050-46-7 CAPLUS
CN p-Benzoquinone, 2,5-bis(4-diethylaminobutylamino)-, methobromide (5CI) (CA INDEX NAME)

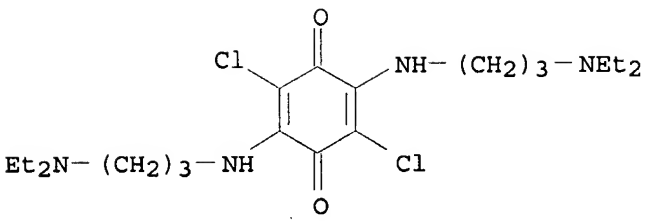


● Br^-

RN 854051-49-3 CAPLUS
CN p-Benzoquinone, 2,5-dichloro-3,6-bis(3-diethylaminopropylamino)-, compd. with benzyl chloride (5CI) (CA INDEX NAME)

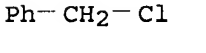
CM 1

CRN 110437-13-3
CMF C20 H34 Cl2 N4 O2



CM 2

CRN 100-44-7
CMF C7 H7 Cl



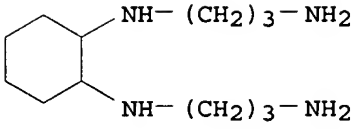
L6 ANSWER 13 OF 14 USPATFULL on STN
ACCESSION NUMBER: 2002:280863 USPATFULL
TITLE: SYNTHESIS OF NEW POLYNITRILES FROM CYCLOALIPHATIC VICINAL PRIMARY DIAMINES
INVENTOR(S): Burdeniuc, Juan Jesus, Macungie, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002156315	A1	20021024
	US 6472553	B2	20021029
APPLICATION INFO.:	US 2002-123929	A1	20020417 (10)

RELATED APPLN. INFO.: Division of Ser. No. US 2001-774343, filed on 31 Jan 2001, PENDING
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: AIR PRODUCTS AND CHEMICALS, INC., PATENT DEPARTMENT, 7201 HAMILTON BOULEVARD, ALLENTOWN, PA, 181951501
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
LINE COUNT: 408
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Compounds of the structure: ##STR1##

wherein R.sub.1 is H, a C1 to C4 alkyl, or a substituted C1 to C4 alkyl; R.sub.2 is H or a cyanoethyl; n is an integer of 1 to 4, and y is 1 or 2, and a method for making the compounds. The compounds are made by reacting acrylonitrile with one or more cycloaliphatic vicinal diamines in the presence of water and a catalytic amount of an acid catalyst having a pK.sub.a of -3.0 to 7.5.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT 445270-40-6P
(preparation of)
RN 445270-40-6 USPATFULL
CN 1,2-Cyclohexanediamine, N,N'-bis(3-aminopropyl)-C-methyl- (9CI) (CA INDEX NAME)



D1—Me

L6 ANSWER 14 OF 14 USPATFULL on STN

ACCESSION NUMBER:	2002:202287 USPATFULL
TITLE:	Synthesis of new polynitriles from cycloaliphatic vicinal primary diamines
INVENTOR(S):	Burdeniuc, Juan Jesus, Macungie, PA, United States
PATENT ASSIGNEE(S):	Air Products and Chemicals, Inc., Allentown, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6433212	B1	20020813
APPLICATION INFO.:	US 2001-774343		20010131 (9)

DOCUMENT TYPE:	Utility
FILE SEGMENT:	GRANTED
PRIMARY EXAMINER:	McKane, Joseph K.
ASSISTANT EXAMINER:	Shameem, Golam M M
LEGAL REPRESENTATIVE:	Bongiorno, Mary E.
NUMBER OF CLAIMS:	4
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT:	361

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds of the structure: ##STR1##

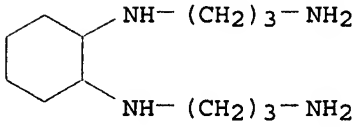
wherein R.sub.1 is H, a C1 to C4 alkyl, or a substituted C1 to C4 alkyl; R.sub.2 is H or a cyanoethyl; n is an integer of 1 to 4, and y is 1 or 2, and a method for making the compounds. The compounds are made by reacting acrylonitrile with one or more cycloaliphatic vicinal diamines in the presence of water and a catalytic amount of an acid catalyst having a PK.sub.a of -3.0 to 7.5.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 445270-40-6P
(preparation of)

RN 445270-40-6 USPATFULL

CN 1,2-Cyclohexanediamine, N,N'-bis(3-aminopropyl)-C-methyl- (9CI) (CA INDEX NAME)



D1—Me

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     FILE 'REGISTRY' ENTERED AT 10:25:57 ON 22 AUG 2007
L1             STRUCTURE UPLOADED
L2           0 S L1 FULL
L3             STRUCTURE UPLOADED
L4         177 S L3 FULL

     FILE 'MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 10:28:46 ON 22 AUG
     2007
L5          52 S L4
L6          14 S L5 NOT PY>2003

=> file uspatfull
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     105.60     451.36

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -9.36      -9.36

FILE 'USPATFULL' ENTERED AT 10:34:15 ON 22 AUG 2007
CA INDEXING COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 21 Aug 2007 (20070821/PD)
FILE LAST UPDATED: 21 Aug 2007 (20070821/ED)
HIGHEST GRANTED PATENT NUMBER: US7260849
HIGHEST APPLICATION PUBLICATION NUMBER: US2007192920
CA INDEXING IS CURRENT THROUGH 21 Aug 2007 (20070821/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 21 Aug 2007 (20070821/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2007
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2007


=> s l4
L7           7 L4

=> d l7 1-7 ibib, abs, hitstr

L7   ANSWER 1 OF 7  USPATFULL on STN
ACCESSION NUMBER:        2007:144173  USPATFULL
TITLE:                   Mixed cationic dyes comprising at least one
                         anthraquinone chromophore and their use in methods of
                         hair dyeing
INVENTOR(S):             Daubresse, Nicolas, La Celle St. Cloud, FRANCE
                         Greaves, Andrew, Montevrain, FRANCE

                              NUMBER        KIND    DATE
                         ---------------- ------ --------
PATENT INFORMATION:      US 2007125261      A1   20070607
APPLICATION INFO.:       US 2006-510698     A1   20060828  (11)

                                NUMBER         DATE
                         ------------------ --------
PRIORITY INFORMATION:    FR 2005-8793       20050826
DOCUMENT TYPE:           Utility
FILE SEGMENT:            APPLICATION
LEGAL REPRESENTATIVE:    FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, LLP,
                         901 NEW YORK AVENUE, NW, WASHINGTON, DC, 20001-4413, US
NUMBER OF CLAIMS:        67
EXEMPLARY CLAIM:         1
LINE COUNT:              2210
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB     Disclosed herein is a mixed cationic direct dye comprising at least one
```
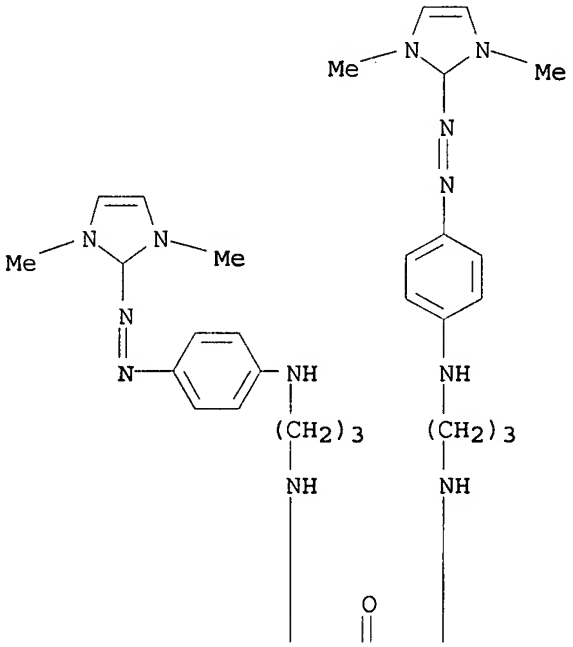
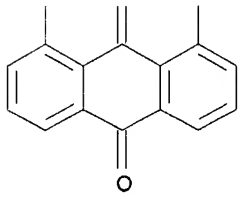

anthraquinone chromophore and at least one cationic chromophore chosen from cationic azo chromophores and cationic hydrazone chromophores, wherein the at least one anthraquinone chromophore is bound to the at least one cationic chromophore by means of at least one linkage. Also disclosed herein is a dyeing composition comprising at least one mixed cationic direct dye. Further disclosed herein is a method of dyeing of keratin fibers, for example, keratin fibers, comprising applying said dyeing composition to the keratin fibers. Still further disclosed herein is a multi-compartment kit comprising at least one compartment comprising at least one dye composition and at least one second compartment comprising at least one oxidizing agen't.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT 926290-28-0P 926290-29-1P 926290-33-7P
926290-35-9P 926290-40-6P
(cationic dyes having an anthraquinone and another chromophoric group for hair coloring with decreased color variation with age)
RN 926290-28-0 USPATFULL
CN 1H-Imidazolium, 2,2'-[(9,10-dihydro-9,10-dioxo-1,8-anthracenediyl)bis(imino-3,1-propanediylimino-4,1-phenylene-2,1-diazenediyl)]bis[1,3-dimethyl-, chloride (1:2) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



●2 Cl⁻

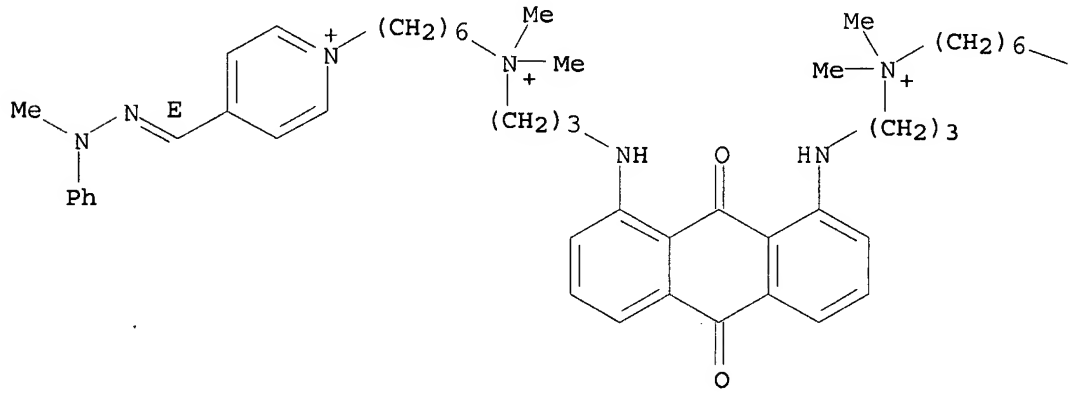
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 926290-29-1 USPATFULL

CN Pyridinium, 1,1'-[(9,10-dihydro-9,10-dioxo-1,8-anthracenediyl)bis[imino-3,1-propanediyl(dimethyliminio)-6,1-hexanediyl]]bis[4-[(E)-(2-methyl-2-phenylhydrazinylidene)methyl]-, bromide (1:4) (CA INDEX NAME)

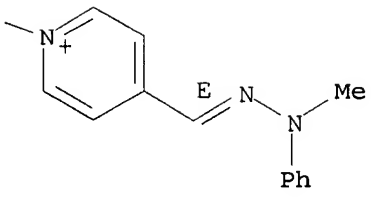
Double bond geometry as shown.

PAGE 1-A



●4 Br⁻

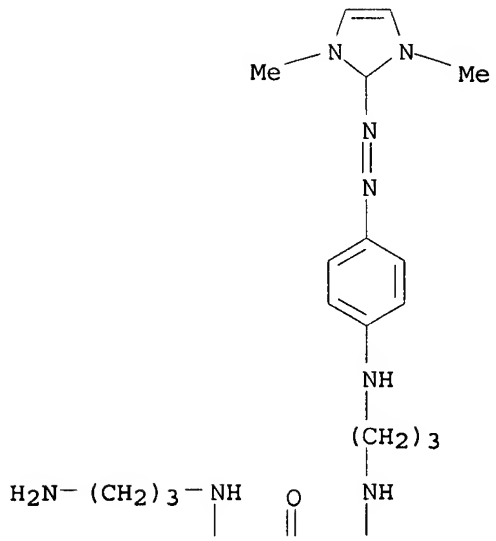
PAGE 1-B



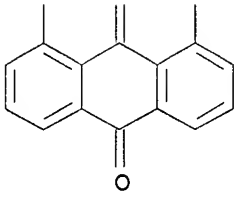
RN 926290-33-7 USPATFULL

CN 1H-Imidazolium, 2-[2-[4-[[3-[[8-[(3-aminopropyl)amino]-9,10-dihydro-9,10-dioxo-1-anthracenyl]amino]propyl]amino]phenyl]diazenyl]-1,3-dimethyl-, chloride (1:1) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 926290-35-9 USPATFULL

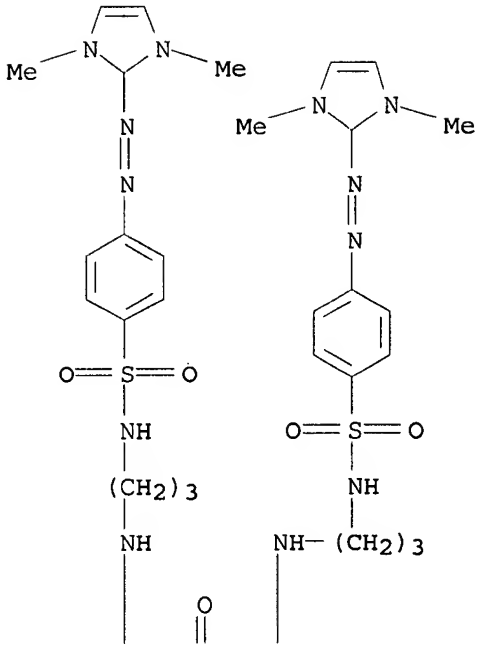
CN 1H-Imidazolium, 2,2'-[(9,10-dihydro-9,10-dioxo-1,8-anthracenediyl)bis(imino-3,1-propanediyliminosulfonyl-4,1-phenylene-2,1-diazenediyl)]bis[1,3-dimethyl-, methyl sulfate (1:2) (CA INDEX NAME)

CM 1

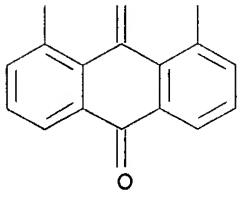
CRN 926290-34-8

CMF C42 H46 N12 O6 S2

PAGE 1-A



PAGE 2-A



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

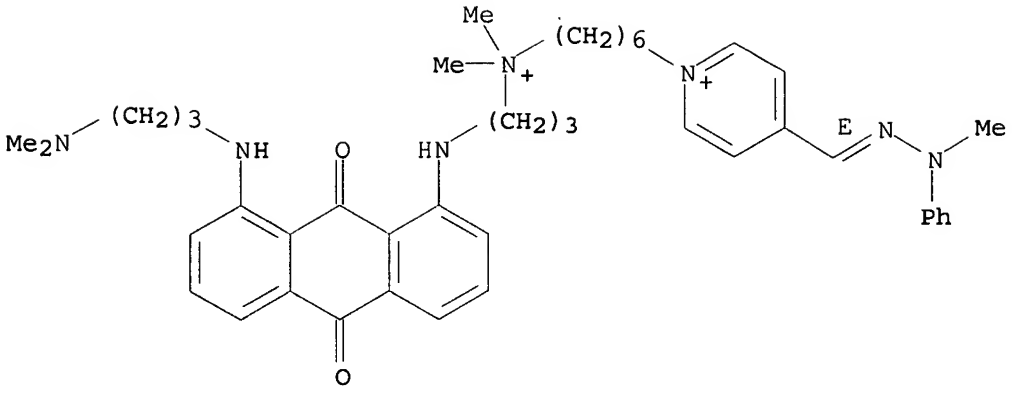
CM 2

CRN 21228-90-0
CMF C H3 O4 S

$Me-O-SO_3^-$

RN 926290-40-6 USPATFULL
CN Pyridinium, 1-[6-[[3-[[8-[[3-(dimethylamino)propyl]amino]-9,10-dihydro-9,10-dioxo-1-anthracenyl]amino]propyl]dimethylammonio]hexyl]-4-[(E)-(2-methyl-2-phenylhydrazinylidene)methyl]-, bromide (1:2) (CA INDEX NAME)

Double bond geometry as shown.



●2 Br⁻

L7 ANSWER 2 OF 7 USPATFULL on STN

ACCESSION NUMBER:	2006:140001 USPATFULL
TITLE:	Anthraquinone colorant compositions and methods for producing the same
INVENTOR(S):	Hong, X. Michael, Greer, SC, UNITED STATES Mahaffey, Robert L., Spartanburg, SC, UNITED STATES Stephens, Eric B., Spartanburg, SC, UNITED STATES Vandahm, Richard A., Spartanburg, SC, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2006117499	A1	20060608	
APPLICATION INFO.:	US 2004-7453	A1	20041208	(11)

DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	Terry T. Moyer, P.O. Box 1927, Spartanburg, SC, 29304, US
NUMBER OF CLAIMS:	31
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	1 Drawing Page(s)
LINE COUNT:	721

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

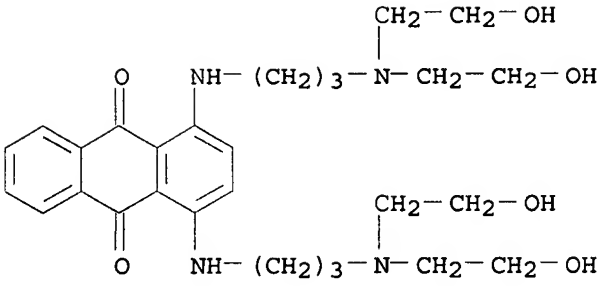
AB This invention relates to compositions of N,N'-dialkyleneoxy-substituted 1,4-diaminoanthraquinone colorants which contain a low percentage of impurities, to a process to make the compositions, and also to the use of the compositions thus prepared for coloring consumer products.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 681810-39-9P
(polyoxyalkylene amine-substituted anthraquinone colorant compns. with low impurity content)

RN 681810-39-9 USPATFULL

CN 9,10-Anthracenedione, 1,4-bis[[3-[bis(2-hydroxyethyl)amino]propyl]amino]- (9CI) (CA INDEX NAME)



L7 ANSWER 3 OF 7 USPATFULL on STN

ACCESSION NUMBER: 2005:299676 USPATFULL

TITLE: 2,5-Bis-diamine-'1,4! benzoquinone derivatives, for the treatment of alzheimer's disease a process for their preparation and intermediates therefor

INVENTOR(S): Andrisano, Vincenza, Bologna, ITALY
Bartolini, Manuela, Mondolfo, ITALY
Bolognesi, Maria Laura, Bologna, ITALY
Cavalli, Andrea, San Lazzaro Di Savena, ITALY
Melchiorre, Carlo, Bologna, ITALY
Recanatini, Maurizio, Bologna, ITALY

PATENT ASSIGNEE(S): ALMA MATER STUDIORUM-UNIVERSITA' DI BOLOGNA, Bologna, ITALY, I-40126 (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005261345	A1	20051124	
APPLICATION INFO.:	US 2003-510833	A1	20030411	(10)
	WO 2003-IT227		20030411	
			20050623	PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	IT 2002-BO198	20020412

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: BIRCH STEWART KOLASCH & BIRCH, PO BOX 747, FALLS CHURCH, VA, 22040-0747, US
NUMBER OF CLAIMS: 47
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Page(s)
LINE COUNT: 1862
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

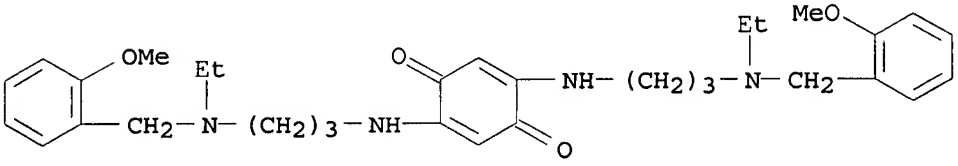
AB 2,5-bis-diamine-[1,4]benzoquinonic derivatives, having a general formula (I) have proved useful for the treatment of Alzheimer's disease; a method for preparing them and intermediates used in said method are also described. ##STR1##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

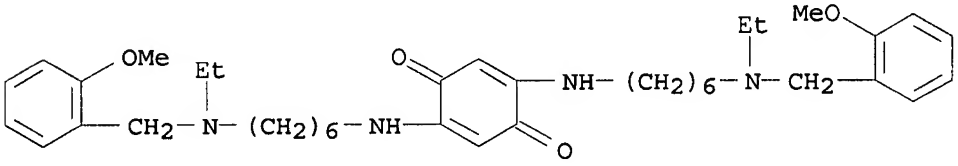
IT 616885-83-7P, 2,5-Bis[[3-[ethyl(2-methoxybenzyl)amino]propyl]amino]-[1,4]benzoquinone 616885-87-1P, 2,5-Bis[[6-[ethyl(2-methoxybenzyl)amino]hexyl]amino]-[1,4]benzoquinone 616885-89-3P, 2,5-Bis[[6-(benzylethylamino)hexyl]amino]-[1,4]benzoquinone 616885-90-6P, 2,5-Bis[[6-[ethyl(2-chlorobenzyl)amino]hexyl]amino]-[1,4]benzoquinone 616885-91-7P, 2,5-Di-tert-butyl-3,6-bis[[3-[ethyl(2-methoxybenzyl)amino]propyl]amino]-[1,4]benzoquinone 616886-00-1P, 2,5-Bis[[6-[ethyl(2-nitrobenzyl)amino]hexyl]amino]-[1,4]benzoquinone 616886-04-5P, 2,5-Bis[[6-[ethyl(3-methoxybenzyl)amino]hexyl]amino]-[1,4]benzoquinone 616886-08-9P, 2,5-Bis[[6-[ethyl(4-methoxybenzyl)amino]hexyl]amino]-[1,4]benzoquinone 616886-12-5P, 2,5-Bis[[6-[ethyl(furan-2-

ylmethyl)amino]hexyl]amino]-[1,4]benzoquinone 616886-20-5P, 2,5-Bis[[6-(2-methoxybenzylamino)hexyl]amino]-[1,4]benzoquinone 616886-23-8P, 2,5-Bis[[6-[N-(2-methoxybenzyl)-N-methylamino]hexyl]amino]-[1,4]benzoquinone 616886-24-9P, 2,5-Bis[[6-[ethyl(2-methoxybenzyl)amino]hexyl]amino]-3,6-dimethyl-[1,4]benzoquinone
(preparation of diamine-[1,4]benzoquinone derivs. for treatment of Alzheimer's disease and pathologies characterized by deposits of β-amyloid protein in mammals)

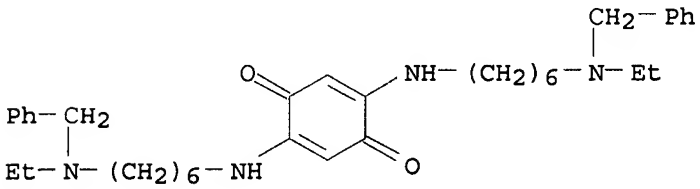
RN 616885-83-7 USPATFULL
CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[3-[ethyl[(2-methoxyphenyl)methyl]amino]propyl]amino]- (9CI) (CA INDEX NAME)



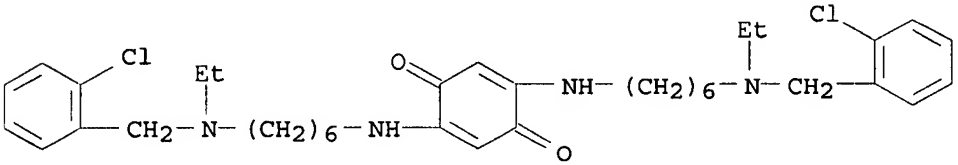
RN 616885-87-1 USPATFULL
CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[6-[ethyl[(2-methoxyphenyl)methyl]amino]hexyl]amino]- (CA INDEX NAME)



RN 616885-89-3 USPATFULL
CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[6-[ethyl(phenylmethyl)amino]hexyl]amino]- (9CI) (CA INDEX NAME)

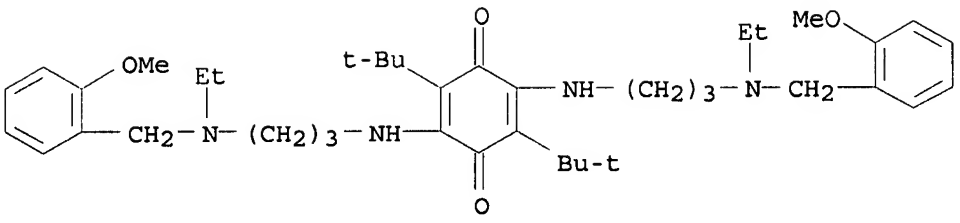


RN 616885-90-6 USPATFULL
CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[6-[[(2-chlorophenyl)methyl]ethylamino]hexyl]amino]- (9CI) (CA INDEX NAME)

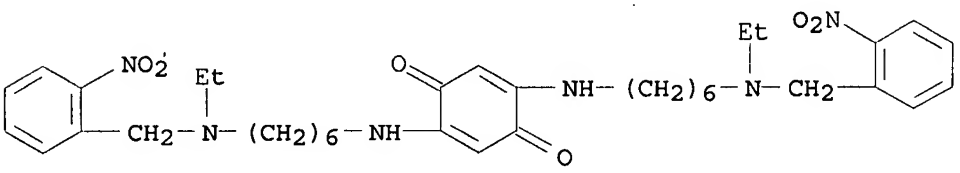


RN 616885-91-7 USPATFULL
CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis(1,1-dimethylethyl)-3,6-bis[[3-[ethyl[(2-methoxyphenyl)methyl]amino]propyl]amino]- (9CI) (CA INDEX

NAME)

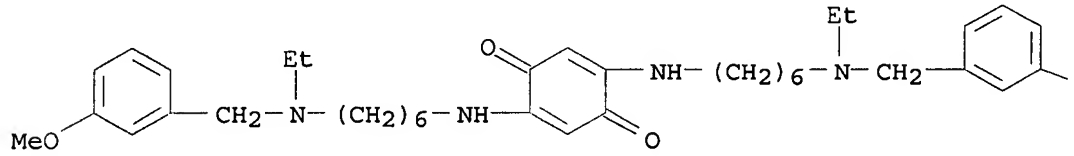


RN 616886-00-1 USPATFULL
CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[6-[ethyl[(2-nitrophenyl)methyl]amino]hexyl]amino]- (9CI) (CA INDEX NAME)



RN 616886-04-5 USPATFULL
CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[6-[ethyl[(3-methoxyphenyl)methyl]amino]hexyl]amino]- (9CI) (CA INDEX NAME)

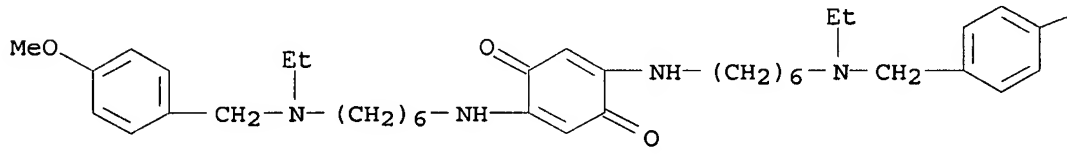
PAGE 1-A



PAGE 1-B

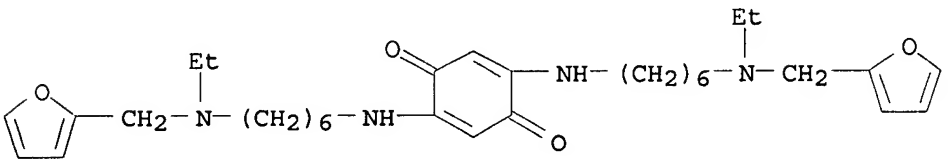
RN 616886-08-9 USPATFULL
CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[6-[ethyl[(4-methoxyphenyl)methyl]amino]hexyl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A

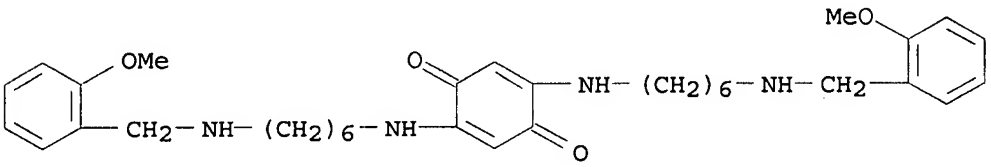


OMe

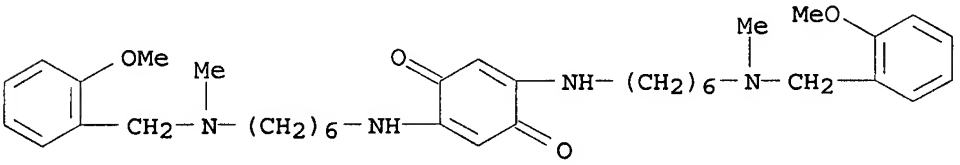
RN 616886-12-5 USPATFULL
CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[6-[ethyl(2-furanylmethyl)amino]hexyl]amino]- (9CI) (CA INDEX NAME)



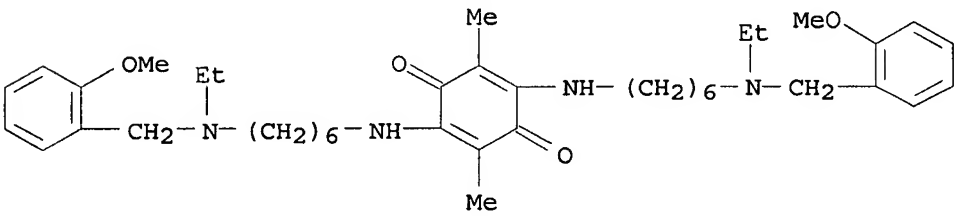
RN 616886-20-5 USPATFULL
CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[6-[[(2-methoxyphenyl)methyl]amino]hexyl]amino]- (9CI) (CA INDEX NAME)



RN 616886-23-8 USPATFULL
CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[6-[[(2-methoxyphenyl)methyl]methylamino]hexyl]amino]- (9CI) (CA INDEX NAME)



RN 616886-24-9 USPATFULL
CN 2,5-Cyclohexadiene-1,4-dione, 2,5-bis[[6-[ethyl[(2-methoxyphenyl)methyl]amino]hexyl]amino]-3,6-dimethyl- (9CI) (CA INDEX NAME)



L7 ANSWER 4 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2005:11789 USPATFULL
TITLE: Synthesis and pharmaceuticals of novel bis-substituted

anthraquinone derivatives

INVENTOR(S): Huang, Hsu-Shan, Taipei, TAIWAN, PROVINCE OF CHINA

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005009924	A1	20050113	
APPLICATION INFO.:	US 2003-615695	A1	20030708	(10)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: STEPHEN M. NIPPER, DYKAS, SHAVER & NIPPER, LLP, P.O. BOX 877, Boise, ID, 83107-0877
NUMBER OF CLAIMS: 25
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 8 Drawing Page(s)
LINE COUNT: 2583

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to novel anthraquinone compounds useful in the treatment of allergic, inflammatory conditions, antioxidant, tumor condition, stem cell application, tissue engineering, applied in treating age-associate tissue degeneration, reverse organ failure in chronic high-turnover disease and therapeutic compositions containing such compounds. The compounds of the present invention are 1,4-, 1,5- and 1,8-difunctionalized anthraquinones or analogs thereof. According to the practice of the invention, there are provided bis-symmetrical substituted anthraquinone compounds according to formula I: ##STR1##

wherein R1, R2, R3 and R4 present a straight, aminoalkylamino side chains or branched chain alkyl group having 1 to 6 carbons which may be substituted with one or more groups of R5, or R1, R2, R3 and R4 present phenyl or benzyl which may be substituted with one or two groups of R6; wherein R5 is selected from the group consisting of halogen, --RNH.sub.2, --RNH.sub.2R, --ROH, --NO.sub.2, --OCH.sub.3, --OCH.sub.2CH.sub.3, and --OCH.sub.2CH.sub.2CH.sub.3; and wherein R6 is selected from the group consisting of a straight or branched chain alkyl group having 1 to 4 carbons, halogen, --RNH.sub.2, --RNH.sub.2R, --ROH, --NO.sub.2, --OCH.sub.3, --OCH.sub.2CH.sub.3, --OCH.sub.2CH.sub.2CH.sub.3, --CH.sub.2Br, --CH.sub.2Cl, --CH.sub.2OH, --C(CH.sub.3).sub.3, --(CH.sub.2).sub.2OH, --(CH.sub.2).sub.3OH, --(CH.sub.2).sub.4OH, --CH.sub.2NH.sub.2, --(CH.sub.2).sub.2NH.sub.2, --(CH.sub.2).sub.3NH.sub.2, --(CH.sub.2).sub.4NH.sub.2, --(CH.sub.2).sub.5NH.sub.2, --CH.sub.2N(CH.sub.3).sub.2, --(CH.sub.2).sub.2N(CH.sub.3).sub.2, --(CH.sub.2).sub.2NH(CH.sub.2).sub.2OH, --(CH.sub.2).sub.3NH(CH.sub.2).sub.2OH, --(CH.sub.2).sub.2NHCH.sub.2OH, --(CH.sub.2).sub.3NHCH.sub.2OH, --CH.sub.2CH(CH.sub.3).sub.2, --CHCl.sub.2, --CH(CH.sub.3)Cl, --(CH.sub.2).sub.2Cl, --(CH.sub.2).sub.3Cl, --(CH.sub.2).sub.3Br, --(CH.sub.2).sub.4Br, and --(CH.sub.2).sub.4Cl.

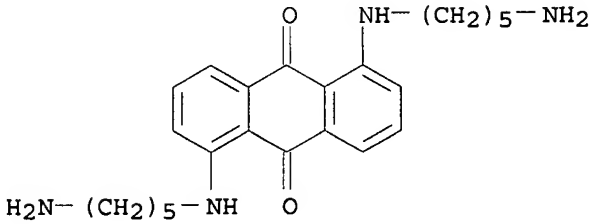
Chart 1. Activation of hTERT promoter-driven SEAP expression by c-Myc. About 1+10.sup.7 hTERT-BJ1 cells were transfected with 13.5 μg each of plasmid pSEAP or pPhTERT-SEAP and of plasmid pMT2T or pMT2T-cMyc by electroporation. After 24 h, viable cells were harvested, and reinoculated at a density of 3+10.sup.5/mL, and the SEAP activity after 24 h at 37 .quadrature.. The transfection efficiency of each experiment was determined by cotransfection with 1.5 μg of plasmid pCMVβ. The values were determined from three experiments. P<0.05 is presented by an asterisk.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

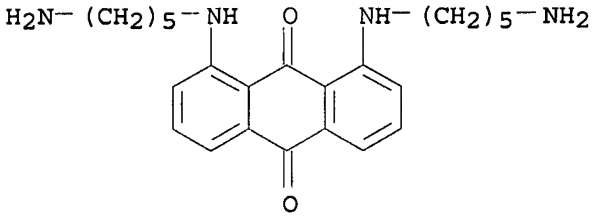
IT 719306-63-5P, 1,5-Bis[(5-aminopentyl)amino]-9,10-anthracenedione
824951-74-8P, 1,8-Bis[(5-aminopentyl)amino]-9,10-anthracenedione
(preparation of bis-substituted -9,10-anthracenedione derivs. as anticancer, antiinflammatory, antioxidant, anti-psoriatic agents or for stem cell or tissue engineering application)

RN 719306-63-5 USPATFULL

CN 9,10-Anthracenedione, 1,5-bis[(5-aminopentyl)amino]- (9CI) (CA INDEX NAME)



RN 824951-74-8 USPATFULL
CN 9,10-Anthracenedione, 1,8-bis[(5-aminopentyl)amino]- (9CI) (CA INDEX NAME)



L7 ANSWER 5 OF 7 USPATFULL on STN

ACCESSION NUMBER:	2004:233893 USPATFULL			
TITLE:	Compounds used to treat alcoholism			
INVENTOR(S):	Bilbeny Lojo, Norberto, Santiago de Chile, CHILE Garcia Madrid, Hernan, Santiago de Chile, CHILE Font Arellano, Maria Belen, Pamplona, SPAIN			
	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2004180967	A1	20040916	
	US 7026514	B2	20060411	
APPLICATION INFO.:	US 2004-482708	A1	20040105	(10)
	WO 2002-ES323		20020701	
	NUMBER		DATE	
PRIORITY INFORMATION:	ES 2001-1642		20010705	
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	APPLICATION			
LEGAL REPRESENTATIVE:	SUGHRUE MION, PLLC, 2100 PENNSYLVANIA AVENUE, N.W., SUITE 800, WASHINGTON, DC, 20037			
NUMBER OF CLAIMS:	10			
EXEMPLARY CLAIM:	1			
LINE COUNT:	381			

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB N,N'-bis(3-aminopropyl)cyclohexane-1,4-diamine, of formula (I), is a new compound that is prepared by hydrogenation with Raney nickel catalyst of N,N'-bis(2-cyanoethyl)-cyclohexane-1,4-diamine, the latter being prepared by reaction between 1,4-cyclohexanediamine and acrylonitrile. The oral administration to genetically alcoholic rats (from the strain UChB of the University of Chile) of the tetrametanesulfonate monohydrate of (I) causes a significant reduction in the alcohol consumption. The activity lasts for some time after the treatment period. Besides, there is a virtually null disulfiram-like adverse effect, what constitutes an advantage over the unpleasant use of some anti-alcoholism agents, such

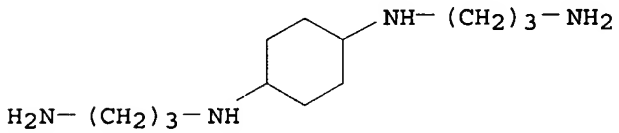
as calcium cyanamide or disulfiram itself. Therefore, the compounds of the invention are useful for the preparation of medicaments for the therapeutic and/or prophylactic treatment of alcoholism in mammals, including human beings. ##STR1##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 484670-29-3P, N,N'-Bis(3-aminopropyl)cyclohexane-1,4-diamine
484670-30-6P, N,N'-Bis(3-aminopropyl)cyclohexane-1,4-diamine tetramethanesulfonate 484670-31-7P, N,N'-Bis(3-aminopropyl)cyclohexane-1,4-diamine tetramethanesulfonate monohydrate
(drug candidate; preparation of bis(aminopropyl)cyclohexanediamine and derivs. for treatment of alcoholism without disulfiram-type side effects)

RN 484670-29-3 USPATFULL

CN 1,4-Cyclohexanediamine, N,N'-bis(3-aminopropyl)- (9CI) (CA INDEX NAME)

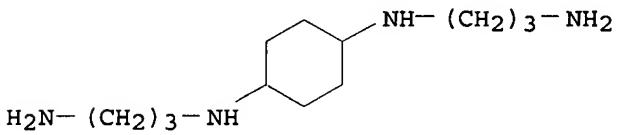


RN 484670-30-6 USPATFULL

CN 1,4-Cyclohexanediamine, N,N'-bis(3-aminopropyl)-, tetramethanesulfonate (9CI) (CA INDEX NAME)

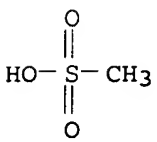
CM 1

CRN 484670-29-3
CMF C12 H28 N4



CM 2

CRN 75-75-2
CMF C H4 O3 S

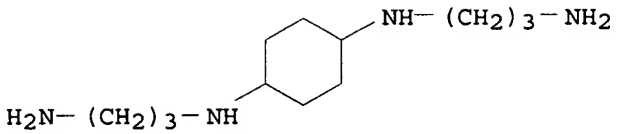


RN 484670-31-7 USPATFULL

CN 1,4-Cyclohexanediamine, N,N'-bis(3-aminopropyl)-, tetramethanesulfonate, monohydrate (9CI) (CA INDEX NAME)

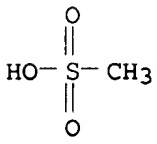
CM 1

CRN 484670-29-3
CMF C12 H28 N4



CM 2

CRN 75-75-2
CMF C H4 O3 S



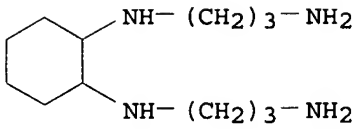
L7 ANSWER 6 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2002:280863 USPATFULL
TITLE: SYNTHESIS OF NEW POLYNITRILES FROM CYCLOALIPHATIC VICINAL PRIMARY DIAMINES
INVENTOR(S): Burdeniuc, Juan Jesus, Macungie, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002156315	A1	20021024
	US 6472553	B2	20021029
APPLICATION INFO.:	US 2002-123929	A1	20020417 (10)

RELATED APPLN. INFO.: Division of Ser. No. US 2001-774343, filed on 31 Jan 2001, PENDING
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: AIR PRODUCTS AND CHEMICALS, INC., PATENT DEPARTMENT, 7201 HAMILTON BOULEVARD, ALLENTOWN, PA, 181951501
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
LINE COUNT: 408
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Compounds of the structure: ##STR1##

wherein R.sub.1 is H, a C1 to C4 alkyl, or a substituted C1 to C4 alkyl; R.sub.2 is H or a cyanoethyl; n is an integer of 1 to 4, and y is 1 or 2, and a method for making the compounds. The compounds are made by reacting acrylonitrile with one or more cycloaliphatic vicinal diamines in the presence of water and a catalytic amount of an acid catalyst having a pK.sub.a of -3.0 to 7.5.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT 445270-40-6P
(preparation of)
RN 445270-40-6 USPATFULL
CN 1,2-Cyclohexanediamine, N,N'-bis(3-aminopropyl)-C-methyl- (9CI) (CA INDEX NAME)



D1— Me

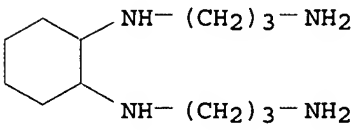
L7 ANSWER 7 OF 7 USPATFULL on STN
ACCESSION NUMBER: 2002:202287 USPATFULL
TITLE: Synthesis of new polynitriles from cycloaliphatic vicinal primary diamines
INVENTOR(S): Burdeniuc, Juan Jesus, Macungie, PA, United States
PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., Allentown, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6433212	B1	20020813
APPLICATION INFO.:	US 2001-774343		20010131 (9)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: McKane, Joseph K.
ASSISTANT EXAMINER: Shameem, Golam M M
LEGAL REPRESENTATIVE: Bongiorno, Mary E.
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 361
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Compounds of the structure: ##STR1##

wherein R.sub.1 is H, a C1 to C4 alkyl, or a substituted C1 to C4 alkyl; R.sub.2 is H or a cyanoethyl; n is an integer of 1 to 4, and y is 1 or 2, and a method for making the compounds. The compounds are made by reacting acrylonitrile with one or more cycloaliphatic vicinal diamines in the presence of water and a catalytic amount of an acid catalyst having a PK.sub.a of -3.0 to 7.5.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT 445270-40-6P
(preparation of)
RN 445270-40-6 USPATFULL
CN 1,2-Cyclohexanediamine, N,N'-bis(3-aminopropyl)-C-methyl- (9CI) (CA INDEX NAME)



D1— Me

=> d his

(FILE 'HOME' ENTERED AT 10:25:45 ON 22 AUG 2007)

FILE 'REGISTRY' ENTERED AT 10:25:57 ON 22 AUG 2007
L1 STRUCTURE UPLOADED
L2 0 S L1 FULL
L3 STRUCTURE UPLOADED
L4 177 S L3 FULL

FILE 'MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 10:28:46 ON 22 AUG 2007
L5 52 S L4
L6 14 S L5 NOT PY>2003

FILE 'USPATFULL' ENTERED AT 10:34:15 ON 22 AUG 2007
L7 7 S L4

=>

---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	79.98	531.34

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-9.36

STN INTERNATIONAL LOGOFF AT 10:48:46 ON 22 AUG 2007